



CONTENTS

(Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database available on STN International; Abstracted, indexed in: Aluminium Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.; Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.; Mass Spectrum. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index)

Sensors

Review – Amperometric sensing in the gas-phase

R. Knake, P. Jacquinet, A.W.E. Hodgson and P.C. Hauser (Basel, Switzerland) 1
A sensitive and selective “turn on” fluorescent chemosensor for Hg(II) ion based on a new pyrene–thymine dyad
Z. Wang, D. Zhang and D. Zhu (Beijing, China) 10

Luminescence

Real-time monitoring of reactive oxygen species production during differentiation of human monocytic cell lines (THP-1)

S. Kasai, H. Shiku, Y.-s. Torisawa (Sendai, Japan), H. Noda, J. Yoshitake (Yamagata, Japan), T. Shiraishi (Tokyo, Japan), T. Yasukawa (Sendai, Japan), T. Watanabe (Himeji, Japan), T. Matsue (Sendai, Japan) and T. Yoshimura (Yamagata, Japan) 14
Surface-modified CdSe quantum dots for the sensitive and selective determination of Cu(II) in aqueous solutions by luminescent measurements
M.T. Fernández-Argüelles, W.J. Jin, J.M. Costa-Fernández, R. Pereiro and A. Sanz-Medel (Oviedo, Spain) 20
Fluorimetric study of the interaction between nicotinamide adenine dinucleotide phosphate and tetracycline–europium complex and its application
Q. Peng, F. Hou, X. Ge, C. Jiang and S. Gong (Shandong, China) 26
Determination of protein with methylene blue-sodium tetraphenylborate phosphorescence probe solid substrate-room temperature phosphorimetry
J.-M. Liu, S.-r. Hu, Z.-y. Yang, X.-L. Li, P.-p. Li, H.-h. Xu (Fujian, PR China), G.-h. Zhu (Zhangzhou, PR China) and L.-D. Li (Beijing, PR China) 32

Polymer imprinting techniques

Theoretical and experimental study of nicotinamide molecularly imprinted polymers with different porogens

L. Wu, K. Zhu, M. Zhao and Y. Li (Beijing, PR China) 39
Selective separation of brominated bisphenol A homologues using a polymer-based medium prepared by the fragment imprinting technique
T. Kubo (Sendai, Japan), K. Hosoya (Kyoto, Japan), T. Sano (Tsukuba, Japan), M. Nomachi (Sendai, Japan), N. Tanaka (Kyoto, Japan) and K. Kaya (Sendai, Japan) 45
Synthesis, characterization, and analytical applications of erbium(III) ion imprinted polymer particles prepared via γ -irradiation with different functional and crosslinking monomers
R. Kala, V.M. Biju and T.P. Rao (Trivandrum, India) 51

Electroanalytical chemistry

A polymeric junction membrane for solid-state reference electrodes

J. Ha (Seoul, Republic of Korea), S.M. Martin (Ann Arbor, MI, USA), Y. Jeon, I.J. Yoon (Seoul, Republic of Korea), R.B. Brown (Salt Lake City, UT, USA), H. Nam and G.S. Cha (Seoul, Republic of Korea) 59
Square-wave adsorptive stripping voltammetry for the determination of cyclofenil after photochemical derivatization
W.F. Pacheco, P.A.M. Farias and R.Q. Aucelio (Rio de Janeiro, Brazil) 67
Optimization of the experimental parameters in the determination of lamotrigine by adsorptive stripping voltammetry
M.E. Burgoa Calvo, O. Domínguez Renedo and M.J. Arcos Martínez (Burgos, Spain) 74

Capillary zone electrophoresis

Capillary zone electrophoresis separation of low concentration stimulants in human urine with laser-induced fluorescence detection

X. Yang, X. Wang and X. Zhang (Shanghai, China) 81
Method development and validation for the simultaneous determination of rosiglitazone and metformin in pharmaceutical preparations by capillary zone electrophoresis
C. Yardımcı and N. Özaltın (Ankara, Turkey) 88

Extraction and preconcentration

Chiral liquid chromatographic determination of mirtazapine in human plasma using two-phase liquid-phase microextraction for sample preparation

F.J.M. de Santana, A.R.M. de Oliveira and P.S. Bonato (São Paulo, Brazil) 96
Pressurized liquid extraction using water/isopropanol coupled with solid-phase extraction cleanup for semivolatile organic compounds, polycyclic aromatic hydrocarbons (PAH), and alkylated PAH homolog groups in sediment
M.R. Burkhardt, S.D. Zaugg, T.L. Burbank, M.C. Olson and J.L. Iverson (Denver, CO, USA) 104

Development of a solid-phase extraction method for the simultaneous determination of chloroanisoles and chlorophenols in red wine using gas chromatography–tandem mass spectrometry A. Martínez-Uruñuela (La Rioja, Spain), I. Rodríguez, R. Cela (Galicia, Spain), J.M. González-Sáiz and C. Pizarro (La Rioja, Spain)	117
Simultaneous preconcentration of Cu, Fe and Pb as methylthymol blue complexes on naphthalene adsorbent and flame atomic absorption determination N. Pourreza and R. Hoveizavi (Ahvaz, Iran)	124
Liquid chromatography – mass spectrometry	
Estimation of L-5-hydroxytryptophan in rat serum and <i>Griffonia</i> seed extracts by liquid chromatography–mass spectrometry G. Koppisetty, A. Siriki, K. Sukala and G.V. Subbaraju (Andhra Pradesh, India)	129
Gas chromatography	
Temperature dependence of solvation heat capacities by gas chromatography Z.A. Fekete (Szeged, Hungary), K. Héberger (Budapest, Hungary), Z. Király and M. Görgényi (Szeged, Hungary)	134
Enzymes	
Properties and analytical application of PQQ-dependent glycerol dehydrogenase from <i>Gluconobacter</i> sp. 33 I. Lapenaite, B. Kurtinaitiene, J. Razumiene, V. Laurinavicius, L. Marcinkeviciene, I. Bachmatova, R. Meskys and A. Ramanavicius (Vilnius, Lithuania)	140
Near infrared spectrometry	
NIR spectrometry for counterfeit drug detection. A feasibility study O.Y. Rodionova (Moscow, Russia), L.P. Houmøller (Esbjerg, Denmark), A.L. Pomerantsev (Moscow, Russia), P. Geladi, J. Burger (Umeå, Sweden), V.L. Dorofeyev and A.P. Arzamastsev (Moscow, Russia)	151
Surfactant-dye binding method	
Quantitation of fusidane antibiotics in pharmaceuticals using the surfactant-dye binding degree method E.M. Costi, M.D. Sicilia, S. Rubio and D. Pérez-Bendito (Córdoba, Spain)	159
Chemometrics	
Classification of PDO olive oils on the basis of their sterol composition by multivariate analysis M.R. Alves (Porto, Viana do Castelo, Portugal), S.C. Cunha, J.S. Amaral (Porto, Bragança, Portugal), J.A. Pereira (Bragança, Portugal) and M.B. Oliveira (Porto, Portugal)	166
Aerosol time-of-flight mass spectrometry	
Predicting bulk ambient aerosol compositions from ATOFMS data with ART-2a and multivariate analysis W. Zhao, P.K. Hopke (Potsdam, NY, USA), X. Qin and K.A. Prather (La Jolla, CA, USA)	179
Inductively coupled plasma mass spectrometry and atomic emission spectrometry	
Determination of ²¹⁰ Pb at ultra-trace levels in water by ICP-MS D. Larivière, K.M. Reiber, R.D. Evans (Peterborough, Canada) and R.J. Cornett (Peterborough, Ottawa, Canada)	188
Comparison of EDXRF and ICP-OES after microwave digestion for element determination in plant specimens from an abandoned mining area E. Marguí (Girona, Spain), I. Queralt (Barcelona, Spain), M.L. Carvalho (Lisboa, Portugal) and M. Hidalgo (Girona, Spain)	197
Neutron activation analysis	
A simple method for correcting the neutron self-shielding effect of matrix and improving the analytical response in prompt gamma-ray neutron activation analysis K. Sudarshan, R. Tripathi, A.G.C. Nair, R. Acharya, A.V.R. Reddy and A. Goswami (Maharashtra, India)	205
Charge transfer complexes	
Analytical study for the charge-transfer complexes of losartan potassium I.A. Darwish (Assiut, Egypt)	212
Author Index	
Calendar of forthcoming meetings	N1



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.